## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/765	5,700	
Source:		IFWO	
Date Processed by STIC:	8/3	1/04	
	2	, ,	

# ENTERED



**IFWO** 

RAW SEQUENCE LISTING DATE: 03/07/2005
PATENT APPLICATION: US/10/765,700 TIME: 15:34:23

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw

```
1 <110> APPLICANT: Loring, Jeanne F.
         Tingley, Debora W.
         Edwards, Carla M.
 4 <120> TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE
 5 <130> FILE REFERENCE: PA-0024 US
 6 <140> CURRENT APPLICATION NUMBER: US/10/765,700
 7 <141> CURRENT FILING DATE: 2004-01-26
 8 <150> PRIOR APPLICATION NUMBER: US/09/566,921
 9 <151> PRIOR FILING DATE: 2000-05-05
                                                          pr 6-7
10 <160> NUMBER OF SEQ ID NOS: 138
11 <170> SOFTWARE: PERL Program
13 <210> SEO ID NO: 1
14 <211> LENGTH: 880
15 <212> TYPE: DNA
16 <213> ORGANISM: Homo sapiens
17 <220> FEATURE:
18 <221> NAME/KEY: misc feature
19 <223> OTHER INFORMATION: Incyte ID No: 997264.12
20 <400> SEQUENCE: 1
21
         cgttcgcagc gctacccttt tccgctccac ggtgacctcc gtgcggccgg gtgccgggcg 60
22
         gagtetteet egateeegtg gtgeteegeg gegeggeegt tggetetett eeggtegegg 120
23
        ggacaccggg tgtagaggc ggtcgcggcg ggcagtggcg gcagaatgtt ggctaccagg 180
24.
         gtatttagcc tagttggcaa gcgagcaatt tccacctctg tgtgtgtacg agctcatgaa 240
25
         agtgttgtga agagcgaaga cttttcgctc ccagcttata tggatcggcg tgaccacccc 300
26
         ttgccggagg tggcccatgt caagcacctg tctgccagcc agaaggcact gaaggagaag 360
27
        gagaaggcct cctggagcag cctctccatg gatgagaaag tcgagttgta tcgcattaag 420
28
        ttcaaggaga gctttgctga gatgaacagg ggctcgaacg agtggaagac ggttgtgggc 480
29
        ggtgccatgt tetteategg ttteaeegeg etegttatea tgtggcagaa geactatgtg 540
30
        tacggccccc tcccgcaaag ctttgacaaa gagtgggtgg ccaagcagac caagaggatg 600
31
        ctggacatga aggtgaaccc catccagggc ttagcctcca agtgggacta cgaaaagaac 660
32
        gagtggaaga agtgagagat gctggcctgc gcctgcacct gcgcctggct ctgtcaccgc 720
33
         catgcaactc catgcctatt tactggaaac ctgttatgcc aaacagttgt accactgcta 780
34
         ataaatgacc agtttacctg aaaaaaaaa ccaaaatggg gaagaaaaaa cttcggacaa 840
35
                                                                            880
         agaaggaagt gcgagaagaa gcccatgtgg agccgctcct
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 1039
39 <212> TYPE: DNA
40 <213> ORGANISM: Homo sapiens
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature
43 <223> OTHER INFORMATION: Incyte ID No: 998433.2
44 <400> SEQUENCE: 2
45
        cttagtcgcg ggctgactgg tgtttatccg tcactcgccg aggttccttg ggtcatggtg 60
```

RAW SEQUENCE LISTING DATE: 03/07/2005
PATENT APPLICATION: US/10/765,700 TIME: 15:34:23

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw

```
46
         ccagcctgac tgagaagagg acgctcccgg gagacgaatg aggaaccacc tcctcctact 120
47
         gttcaagtac aggggcctgg tccgcaaagg gaagaaaagc aaaagacgaa aatggctaaa 180
         ttcgtgatcc gcccagccac tgccgccgac tgcagtgaca tactgcggct gatcaaggag 240
48
49
         ctggctaaat atgaatacat ggaagaacaa gtaatcttaa ctgaaaaaga tctgctagaa 300
50
         gatggttttg gagagcaccc cttttaccac tgcctggttg cagaagtgcc gaaagagcac 360
51
         tggactccgg aaggacacag cattgttggt tttgccatgt actattttac ctatgacccg 420
52
         tggattggca agttattgta tcttgaggac ttcttcgtga tgagtgatta tagaggcttt 480
53
         ggcataggat cagaaattct gaagaatcta agccaggttg caatgaggtg tcgctgcagc 540
         agcatgcact tcttggtagc agaatggaat gaaccatcca tcaacttcta taaaagaaga 600
54
55
         gqtgcttctq atctgtccag tgaaqaqqt tqqaqactqt tcaaqatcqa caaggagtac 660
         ttgctaaaaa tggcaacaga ggagtgagga gtgctgctgt agatgacaac ctccattcta 720
56
57
         ttttagaata aattcccaac ttctcttgct ttctatgctg tttgtagtga aataatagaa 780
58
         tgagcaccca ttccaaagct ttattaccag tggcgttgtt gcatgtttga aatgaggtct 840
59
         gtttaaagtg gcaatctcag atgcagtttg gagagtcaga tctttctcct tgaatatctt 900
60
         tcgataaaca acaaggtggt gtgatcttaa tatatttgaa aaaaacttca ttctcgtgag 960
61
         tcatttaaat gtgtacaatg tacacactgg tacttagagt ttctgtttga ttctttttta 1020
                                                                            1039
62
         ataaactact ctttqattt
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 2666
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapiens
68 <220> FEATURE:
69 <221> NAME/KEY: misc_feature
70 <223> OTHER INFORMATION: Incyte ID No: 232838.13
71 <400> SEQUENCE: 3
72
         gccatctttc cagcctcagt cggacgggcg cggagacgct tctggaagga acgccgcgat 60
73
         ggctgcgcag ggagagcccc aggtccagtt caaagtaggt aaccctgcgg ggcgggaggc 120
74
         ggccgagccc gaccgcgtgc gactcgcggg tccctcctcc tggggccacg atggctgtaa 180
75
         tggggccccg catccacatt ctttgtttta agtgagcctg tggtggttaa agttccgtga 240
76
         ctctgggatc ttgagaggtg aagtgtttag ggtttacttc caaaatgtgt ttttcaacag 300
77
         cttgtattgg ttggtgatgg tggtactgga aaaacgacct tcgtgaaacg tcatttgact 360
         ggtgaatttg agaagaagta tgtagccacc ttgggtgttg aggttcatcc cctagtgttc 420
78
79
         cacaccaaca gaggacctat taagttcaat gtatgggaca cagccggcca ggagaaattc 480
80
         ggtggactga gagatggcta ttatatccaa gcccagtgtg ccatcataat gtttgatgta 540
81
         acategagag ttacttacaa gaatgtgeet aactggeata gagatetggt acgagtgtgt 600
82
         gaaaacatcc ccattgtgtt gtgtggcaac aaagtggata ttaaggacag gaaagtgaag 660
83
         gcgaaatcca ttgtcttcca ccgaaagaag aatcttcagt actacgacat ttctgccaaa 720
84
         agtaactaca actttgaaaa gcccttcctc tggcttgcta ggaagctcat tggagaccct 780
85
         aacttggaat ttgttgccat gcctgctctc gccccaccag aagttgtcat ggacccagct 840
86
         ttqqcaqcac aqtatqaqca cqacttaqaq qttqctcaqa caactqctct cccqqatqaq 900
87
         gatgatgacc tgtgagaatg aagctggagc ccagcgtcag aagtctagtt ttataggcag 960
         ctgtcctgtg atgtcagcgg tgcagcgtgt gtgccacctc attattatct agctaagcgg 1020
88
         aacatgtqct tcatctqtqq qatqctgaaq gaqatqagtq qgcttcggaq tgaatgtggc 1080
89
90
         agtttaaaaa ataacttcat tqtttgqacc tgcatattta qctgttttgg aacgcagttg 1140
91
         attecttgag tttcatatat aagactgetg cagteacate acaatattea gtggtgaaat 1200
92
         cttqtttqtt actqtcattc ccattccttt tcqtttaqaa tcaqaataaa gttgtatttc 1260
93
         aaatatctaa qcaaqtqaac tcatcccttq tttataaata qcatttqqaa accactaaaq 1320
94
         tagggaagtt ttatgccatg ttaatatttg aattgccttg cttttatcac ttaatttgaa 1380
95
         atctattqqq ttaatttctc cctatqttta tttttqtaca tttqaqccat gtcacacaaa 1440
```

RAW SEQUENCE LISTING DATE: 03/07/2005
PATENT APPLICATION: US/10/765,700 TIME: 15:34:23

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw

```
96
         ctgatgatga caggtcagca gtattctatt tggttagaag ggttacatgg tgtaaatatt 1500
97
         agtgcagtta agctaaagca gtgtttgctc caccttcata ttggctaggt agggtcacct 1560
98
         agggaagcac ttgctcaaaa tctgtgacct gtcagaataa aaatgtggtt tgtacatatc 1620
99
         aaatagatat tttaagggta atattttctt ttatggcaaa agtaatcatg ttttaatgta 1680
100
          gaaceteaaa caggatggaa catcagtgga tggcaggagg ttgggaatte ttgctgttaa 1740
          aaataattac aaattttgca cttttttgtt tgaatgttag atgcttagtg tgaagttgat 1800
101
          acgcaaggaa aatggtccat gtttacccac agttttcagg tactcctaga ctttaaagat 1860
102
103
          gtcttgaaca tttaagttct tcagcagttc acactacacc gtttttttgt tgttttttcc 1920
104
          cccccgggag ggtttttttg tagggcagca cagcagagca ggacatggat gaaatactag 1980
105
          gaatatgcac agtggggcag tgtgggggct tctcagtaat ggagaacagt tggtgaaact 2040
106
          tttttttttt tttaactaag catttaattt atcttgcata ttttccacat ttaaaaatga 2100
107
          attaggtcta ttaggataat taggagtttg atcccatcaa cactattctt gtagcagtta 2160
108
          ggaatcttga gctatttttt tctcatacga ttactatagt ccagtttacc aaagttttct 2220
109
          ttagatgtct gataatcttg agatgattgc ttaccttaaa aggtatagaa aggatcactt 2280
110
          aaatatatgg aaaaatgaaa taagggtgaa gctgaataaa gttctactta ctgtattaac 2340
111
          tggcaacagt tgagtttctt aagatctgaa ttgctgtgta tgttacgctg tattcagaac 2400
112
          cagtttctaa ccagcctgtg agatgggaag ttttttcccc ataattggga tgaaaccttt 2460
113
          cattcaggta ttttgaattg aaggtgtatg tgttgtttgt aaccttgtgg agattgcaag 2520
114
          tggtgttgac attctggatc ttctatgtaa cagttgaaat ttggaagtga cgtcacttac 2580
115
          ctgtctaacg tggtgtggga gagaatttac aagtccttta ttgaaagaat aattgttgca 2640
116
          aaatatattg cttctacttt gcctgg
118 <210> SEO ID NO: 4
119 <211> LENGTH: 4626
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
122 <220> FEATURE:
123 <221> NAME/KEY: misc feature
124 <223> OTHER INFORMATION: Incyte ID No: 350407.1
125 <220> FEATURE:
126 <221> NAME/KEY: unsure
127 <222> LOCATION: 4607
128 <223> OTHER INFORMATION: a, t, c, g, or other
129 <400> SEOUENCE: 4
130
          ggggggagcc ttagtcattt ccccgctcca gcctgctccc gcccgagcgc gcactcacgg 60
131
          cegetetece tectegetee geageegegg cecatggage cegeeggeee ggeeceegge 120
132
          cgcctcgggc cgctgctctg cctgctgctc gccgcgtcct gcgcctggtc aggagtggcg 180
133
          ggtgaggagg agctgcaggt gattcagcct gacaagtccg tgttggttgc agctggagag 240
134
          acagccactc tgcgctgcac tgcgacctct ctgatccctg tggggcccat ccagtggttc 300
135
          agaggagctg gaccaggccg ggaattaatc tacaatcaaa aagaaggcca cttcccccgg 360
136
          gtaacaactg tttcagacct cacaaagaga aacaacatgg acttttccat ccgcatcggt 420
137
          aacatcaccc cagcagatgc cggcacctac tactgtgtga agttccggaa agggagcccc 480
138
          gatgacacgg agtttaagtc tggagcaggc actgagctgt ctgtgcgtgc caaaccctct 540
139
          gcccccgtgg tatcgggccc tgcggcgagg gccacacctc agcacacagt gagettcacc 600
140
          tgcgagtccc acggcttctc acccagagac atcaccctga aatggttcaa aaatgggaat 660
141
          gageteteag aetteeagae eaacgtggae eeegtaggag agagegtgte etacageate 720
142
          cacagcacag ccaaggtggt gctgacccgc gaggacgttc actctcaagt catctgcgag 780
143
          gtggcccacg tcaccttgca gggggaccct cttcgtggga ctgccaactt gtctgagacc 840
144
          atccgagttc cacccacctt ggaggttact caacagcccg tgagggcaga gaaccaggtg 900
145
          aatgtcacct gccaggtgag gaagttctac ccccagagac tacagctgac ctggttggag 960
```

RAW SEQUENCE LISTING DATE: 03/07/2005
PATENT APPLICATION: US/10/765,700 TIME: 15:34:23

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw

146	aatggaaacg	tgtcccggac	agaaacggcc	tcaaccgtta	cagagaacaa	ggatggtacc	1020
147	tacaactgga	tgagctggct	cctggtgaat	gtatctgccc	acagggatga	tgtgaagctc	1080
148	acctgccagg	tggagcatga	cgggcagcca	gcggtcagca	aaagccatga	cctgaaggtc	1140
149	tcagcccacc	cgaaggagca	gggctcaaat	accgccgctg	agaacactgg	atctaatgaa	1200
150	cggaacatct	atattgtggt	gggtgtggtg	tgcaccttgc	tggtggccct	actgatggcg	1260
151						ttctacaagg	
152						tatcacatat	
153	gcagacctga	acctgcccaa	ggggaagaag	cctgctcccc	aggctgcgga	gcccaacaac	1440
154						caccctcacc	
155						ccccaagcct	
156	gagccgtcct	tctcagagta	cgccagcgtc	caggtcccga	ggaagtgaat	gggaccgtgg	1620
157						cgtgatgagc	
158	acagccaacc	cagttcccgg	agggctgggg	cggtgcaggc	tctgggaccc	aggggccagg	1740
159						gccacggccc	
160						agggaaccaa	
161						tccatcacca	
162						cttccagggt	
163						acaccacaca	
164			_			ctttagatca	
165						aggcttggtg	
166						tgagtcctgg	
167						ttgggtccct	
168	ccaagactcc	ctggggccca	actgtgttgc	tccacccgga	cccatctctc	ccttctagac	2340
169						tgtaaattac	
170						tctgtggtgt	
171						gtcatgtgtt	
172						ctggagggat	
173						gggcaagaag	
174						tggccatgtt	
175						gtaagtccag	
176	cctgcccagg	gctgctgagg	gctgcctctt	gacagtgcag	tcttatcgag	acccaacgcc	2820
177						accacctctc	
178	ataagcactt	taggaacaca	cagagggtag	ggatagtggc	cctggccgtc	tatcctaccc	2940
179	ctttagtgac	cgcccccatc	ccggctttct	gagctgatcc	ttgaagaaga	aatcttccat	3000
180	ttctgctctc	aaaccctact	gggatcaaac	tggaataaat	tgaagacagc	cagggggatg	3060
181	gtgcagctgt	gaagctcggg	ctgattcccc	ctctgtccca	gaaggttggc	cagagggtgt	3120
182	gacccagtta	ccctttaacc	cccacccttc	cagtcgggtg	tgagggcctg	adogggccca	3180
183	gggcaagcag	atgtcgcaag	ccctatttat	tcagtcttca	ctataactct	tagagttgag	3240
184	acgctaatgt	tcatgactcc	tggccttggg	atgcccaagg	gatttctggc	tcäggctgta	3300
185	aaagtagctg	agccatcctg	cccattcctg	gaggtcctac	aggtgaaact	gcaggagctc	3360
186	agcatagacc	cagctctctg	ggggatggtc	acctggtgat	ttcaatgatg	gcatccagga	3420
187	attagctgag	ccaacagacc	atgtggacag	ctttggccag	agctcccgtg	tggcatctgg	3480
188	gagccacagt	gacccagcca	cctggctcag	gctagttcca	aattccaaaa	gattggcttg	3540
189	taaaccttcg	tctccctctc	ttttacccag	agacagcaca	tacgtgtgca	cacgcatgca	3600
190	cacacacatt	cagtattta	aaagaatgtt	ttcttggtgc	cattttcatt	ttattttatt	3660
191	ttttaattct	tggagggga	aataagggaa	taaggccaag	gaagatgtat	agctttagct	3720
192						aaaaggaaga	
193	ggtcgaacca	accctgcgga	aggagcatgg	tttcaggagt	ttattttaag	actgctggga	3840
194	aggaaacagg	ccccattttg	tatatagttg	caacttaaac	tttttggctt	gcaaaatatt	3900

## **RAW SEQUENCE LISTING**PATENT APPLICATION: **US/10/765,700**. DATE: 03/07/2005 TIME: 15:34:23

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw

```
195
               tttgtaataa agatttctgg gtaataatga gtccttccgg tgttcagtat tcttgtcttt 3960
     196
               gtgagtgcgt cccggggccg cctcggggcc tgcctgccct cctgccaaag cctggaagag 4020
     197
               gattgaatgg accccagggt ttggaaacaa cctacagcat ttgagcccct cacgtaggtt 4080
     198
               ttagagacgt acaatttttg tttgccctgg ctcagaagga gccggtgtaa ggttgagata 4140
     199
               aaattccata tagacaactg agtttggatc tcggctctgc tgctttgtag ctgtgggagt 4200
     200
               tcaaacagca cctctttgag acttgggccc cgcgtcggca caatggggca ggaatagtcc 4260
     201
               ctgccagggt gactgtgtgg attcaaggag gttggaagca ctgagcccac gcttggcact 4320
     202
               gggtaggcca tcactgaggc ttgtgtcttt ccttcctgcc ctgaccctgc atagctgagt 4380
     203
               ctcgtggcct ctcaccactg atgggatctc ggacacccgg ctcaccctcc tcctggggcc 4440
     204
               tcactttcct tccccaccaa atgcagacat ctaatgcttg tcctgtaata tccttgccag 4500
     205
               atgactgatg tcaagtgctg gtttatagtg ggtgctcaat aaatgttagt ttcctttcta 4560
W - - > 206
               tccctccatt agatcattaa tgatattagt ggtaattatg taataangtt aaggcataaa 4620
     207
               tatgtc
                                                                                  4626
     209 <210> SEQ ID NO: 5
     210 <211> LENGTH: 3637
     211 <212> TYPE: DNA
     212 <213> ORGANISM: Homo sapiens
     213 <220> FEATURE:
     214 <221> NAME/KEY: misc feature
     215 <223> OTHER INFORMATION: Incyte ID No: 350454.2
     216 <400> SEQUENCE: 5
     217
               cageccetet ggeaggetee egeeagegte getgeggete eggeeeggga gegagegeee 60
     218
               ggagctcgga aagatgcggc gcccgcggcg gcctgggggt ctcgggggat ccgggggtct 120
     219
               coggetgete etetgeetee tgetgetgag cageegeeeg gggggetgea gegeegttaq 180
     220
               tgcccacggc tgtctatttg accgcaggct ctgctctcac ctggaagtct gtattcagga 240
     221
               tggcttgttt gggcagtgcc aggtgggagt ggggcaggcc cggccccttt tgcaagtcac 300
     222
               ctccccagtt ctccaacgct tacaaggtgt gctccgacaa ctcatgtccc aaggattgtc 360
     223
               ctggcacgat gacctcaccc agtatgtgat ctctcaggag atggagcgca tccccaggct 420
     224
               tegeceecea gageecegte caagggacag gtetggettg geacecaaga gacetggtee 480
     225
               tgctggagag ctgcttttac aggacatccc cactggctcc gcccctgctg cccagcatcg 540
     226
               gettecacaa ceaceagtgg geaaaggtgg agetggggee ageteetete tgteeeetet 600
     227
               gcaggetgag etgetecege etetettgga gcacetgetg etgececeae agectececa 660
     228
               cccttcactg agttacgaac ctgccttgct gcagccctac ctgttccacc agtttggctc 720
     229
               ccgtgatggc tccagggtct cagagggctc cccagggatg gtcagtgtcg gccccctgcc 780
     230
               caaggetgaa geeeetgeee tetteageag aactgeetee aagggeatat ttggggaeea 840
     231
               ecctggeeae tectaegggg acetteeagg geetteaeet geeeagettt tteaagaete 900
     232
               tgggctgctc tatctggccc aggagttgcc agcacccagc agggccaggg tgccaaggct 960
     233
               gccagagcaa gggagcagca gccgggcaga ggactcccca gagggctatg agaaggaagg 1020
     234
               actaggggat cgtggagaga agcctgcttc cccagctgtg cagccagatg cggctctgca 1080
     235
               gaggetggee getgtgetgg egggetatgg ggtagagetg egteagetga eeeetgagea 1140
     236
               getetecaea etectgaece tgetgeaget aetgeceaag ggtgeaggaa gaaateeggg 1200
    237
               aggggttgta aatgttggag ctgatatcaa gaaaacaatg gaggggccgg tggagggcag 1260
     238
               agacacagea gagettecag coegcacate ecceatgeet ggacacecea etgecagece 1320
     239
               tacctccagt gaagtccagc aggtgccaag ccctgtctcc tctgagcctc ccaaagctgc 1380
     240
               cagaccccct gtgacacctg tcctgctaga gaagaaaagc ccactgggcc agagccagcc 1440
     241
               cacgqtqgca gqacaqccct cagcccqccc aqcaqcaqaq qaatatqqct acatcqtcac 1500
     242
               tgatcagaag cccctgagcc tggctgcagg agtgaagctg ctggagatcc tggctgagca 1560
     243
               tgtgcacatg tcctcaggca gcttcatcaa catcagtgtg gtgggaccag ccctcacctt 1620
     244
               cegeateegg cacaatgage agaacetgte tttggetgat gtgacecaac aageaggget 1680
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/07/2005 PATENT APPLICATION: US/10/765,700 TIME: 15:34:24

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw

Output Set: N:\CRF4\03072005\J765700.raw

#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seg#:4; N Pos. 4607
Seq#:6; N Pos. 1487,1488,1489,1490,1491,1492,1493,1494,1495,1496,1497,1498
Seq#:6; N Pos. 1499,1500,1501,1502,1503,1504,1505,1506,1507,1508,1509,1510
Seq#:6; N Pos. 1511,1512,1513,1514,1515,1516,1517,1518,1519,1520,1521,1522
Seq#:6; N Pos. 1523,1524,1525,1526,1527,1528,1529,1530,1531,1532,1533,1534
Seq#:6; N Pos. 1535
Seq#:7; N Pos. 3488,3489,3490,3491,3492,3493,3494,3495,3496,3497,3498,3499
Seq#:7; N Pos. 3500,3501,3502,3503,3504,3505,3506,3507,3508,3509,3510,3511
Seq#:7; N Pos. 3512,3513,3514,3515,3516,3517,3518,3519,3520,3521,3522,3523
Seq#:7; N Pos. 3524,3525,3526,3527,3528,3529,3530,3531,3532,3533,3534,3535
Seq#:7; N Pos. 3536,3537,3538,3539,3540,3541,3542,3543,3544,3545,3546,3547
Seq#:7; N Pos. 3548,3549,3550,3551,3552,3553,3554,3555,3556,3557,3558,3559
Seq#:7; N Pos. 3560,3561,3562,3563,3564,3565,3566,3567,3568,3569,3570,3571
Seq#:7; N Pos. 3572,3573,3574,3575,3576,3577,3578,3579,3580,3581,3582,3583
Seq#:7; N Pos. 3584,3585,3586,3587,3588,3589,3590,3591,3592,3593,3594,3595
Seq#:7; N Pos. 3596,3597,3598,3599,3600,3601,3602,3603,3604,3605,3606,3607
Seq#:7; N Pos. 3608,3609,3610,3611,3612,3613,3614,3615,3616,3617,3618,3619
Seq#:7; N Pos. 3620,3621,3622,3623,3624,3625,3626,3627,3628,3629,3630,3631
Seq#:7; N Pos. 3632,3633,3634,3635,3636,3637,3638,3639,3640,3641,3642,3643
Seq#:7; N Pos. 3644,3645,3646,3647,3648,3649,3650,3651,3652,3653,3654,3655
Seq#:7; N Pos. 3656,3657,3658,3659,3660,3661,3662,3663,3664,3665,3666,3667
Seq#:7; N Pos. 3668,3669,3670,3671,3672,3673,3674,3675,3676,3677,3678,3679
Seq#:7; N Pos. 3680,3681,3682,3683,3684,3685,3686,3687,3688,3689,3690,3691
Seq#:7; N Pos. 3692,3693,3694,3695,3696,3697,3698,3699,3700,3701,3702,3703
Seq#:7; N Pos. 3704,3705,3706,3707,3708,3709,3710,3711,3712,3713,3714,3715
Seq#:7; N Pos. 3716,3717,3718,3719,3720,3721,3722,3723,3724,3725,3726,3727
Seq#:7; N Pos. 3728,3729,3730,3731,3732,3733,3734,3735,3736,3737,3738,3739
Seq#:7; N Pos. 3740,3741,3742,3743,3744,3745,3746,3747,3748,3749,3750,3751
Seq#:7; N Pos. 3752,3753,3754,3755,3756,3757,3758,3759,3760,3761,3762,3763
Seq#:7; N Pos. 3764,3765,3766,3767,3768,3769,3770,3771,3772,3773,3774,3775
Seq#:7; N Pos. 3776,3777,3778,3779,3780,3781,3782,3783,3784,3785,3786,3787
Seq#:7; N Pos. 3788
Seq#:9; N Pos. 1110
Seq#:10; N Pos. 1636
Seq#:11; N Pos. 299,304,312,347,375,376,377,378,379,380,381,382,383,384,385
Seq#:11; N Pos. 386,387,388,389,390,391,392,393,394,395,401
Seq#:12; N Pos. 3882,3883,3884,3885,3886,3887,3888,3889,3890,3891,3892,3893
Seq#:12; N Pos. 3894,3895,3896,3897,3898,3899,3900,3901,3902,3903,3904,3905
Seq#:12; N Pos. 3906,3907,3908
Seq#:14; N Pos. 5019
Seq#:16; N Pos. 216,3091,3093,3103
Seq#:17; N Pos. 805,810,814
Seq#:18; N Pos. 4,18,23,35,47,56,75,79,96,209,211,212,213,215,216,217,223
Seq#:18; N Pos. 226,244,250,326
```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/765,700

DATE: 03/07/2005 TIME: 15:34:24

Input Set : N:\Crf4\Refhold\10 folder\J765700.raw

Output Set: N:\CRF4\03072005\J765700.raw

Seq#:22; N Pos. 6500,6506

Seq#:25; N Pos. 550,551,552,553,554,555,556,557,558,559,560,561,562,563,564

Seq#:25; N Pos. 565,566,567,568,569,570,571,572,573,574,575,576,577,578

Seq#:26; N Pos. 1569,1580

Seq#:27; N Pos. 34,44,53,62,65,72,85,105,132,147

Seq#:31; N Pos. 482,502,3907,3908,3909,3910,3911,3912,3913,3914,3915,3916
Seq#:31; N Pos. 3917,3918,3919,3920,3921,3922,3923,3924,3925,3926,3927,3928

#### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:18; Line(s) 1178

## VERIFICATION SUMMARY DATE: 03/07/2005 PATENT APPLICATION: US/10/765,700 TIME: 15:34:24

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw
Output Set: N:\CRF4\03072005\J765700.raw

```
L:206\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:4560
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1440
M:341 Repeated in SeqNo=6
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:3480
M:341 Repeated in SeqNo=7
L:600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:1080
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:1620
L:687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:240
M:341 Repeated in SeqNo=11
L:769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:3840
M:341 Repeated in SeqNo=12
L:981 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:4980
L:1063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:180
M:341 Repeated in SeqNo=16
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:780
L:1181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
M:341 Repeated in SeqNo=18
L:1506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:6480
L:1689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:540
L:1783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:1560
L:1797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
M:341 Repeated in SeqNo=27
L:1991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:480
M:341 Repeated in SeqNo=31
L:2227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:9360
M:341 Repeated in SeqNo=32
L:2312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:1740
M:341 Repeated in SeqNo=33
L:2379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:1980
L:2599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:2723 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:4740
L:2817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
M:341 Repeated in SeqNo=41
L:3102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:3480
M:341 Repeated in SeqNo=44
L:3382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:1200
M:341 Repeated in SeqNo=46
L:3501 \ M:341 \ W: \ (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:300
L:3590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:3720
L:4052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:2940
M:341 Repeated in SeqNo=57
L:4175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:60
M:341 Repeated in SeqNo=59
L:4455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:720
M:341 Repeated in SeqNo=64
L:4647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:1500
L:4699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:1320
M:341 Repeated in SeqNo=70
```

VERIFICATION SUMMARY

DATE: 03/07/2005

PATENT APPLICATION: US/10/765,700

TIME: 15:34:24

Input Set : N:\Crf4\Refhold\10\_folder\J765700.raw

Output Set: N:\CRF4\03072005\J765700.raw

 $L\!:\!4850$  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:1740 L:4929 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:1920